RACK-814 CHASSIS
USER'S MANUAL

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Chapter 1 Product Information

1.1 General Information

Rack-814 is a PC/AT compatible computer designed for Industrial applications. It is a steel rugged chassis specially designed to work under harsh environment for high reliability application. The Rack-814 features 14 slots Passive Backplanes and high reliability AC/DC Input Power Supply (Options available are: ACE-920A, ACE-932A, ACE932T, ACE925T, ACE925C, ACE-916V ACE-935A and ACE-C232). Specially equipped with Keyboard Port on front side for easy access.

Rack-814 will withstand shock, vibration, dust and wide range of temperature in Industrial environments. A lockable door protects drives and switches from unauthorized misuse and particle. Three removable cooling-fans installed in the rear for optimum cooling system.

1.2 Product Specifications

General specification

- Construction : Heavy-duty steel
- Disk Driver : One 5.25” drive and Two 3.5” drive(FDD&HDD) space
- Cooling Fan : Three Ball bearing fans(8cmX3)
- Indicator : Two LEDs to monitor the status of HDD and Power
-UBS PORT : In the front panel
- Dimension : 431(W)X176(H)X454.7(D) mm

Passive Backplanes (Optional)

Features 14 slots Full-length backplanes with the options: BP-14S, BP-14SD, PCI-14S, PCI-14S2, PCI-13SD, PX-14S, PX-14S2 and IP-14S

Power Supply

Optional power Supply for the Rack-814 are: ACE-920A/932T/935AI/925C/916V
For the DC input Power Supply, you may choose: ACE-932T, ACE-925T, ACE-925C or ACE-916V.
Optional ACE-C232 redundant power supply for the RACK-814.

Working Environment

- Operating Temperature	:	0~50°C
- Relative Humidity	:	5~95% Relative
- Vibration	:	5-17Hz, 0.1” double amplitude displacement
		17-640Hz, 1.5G acceleration peak to peak
- Shock	:	10G acceleration peak to peak
- Safety approval	:	meet CE, FCC

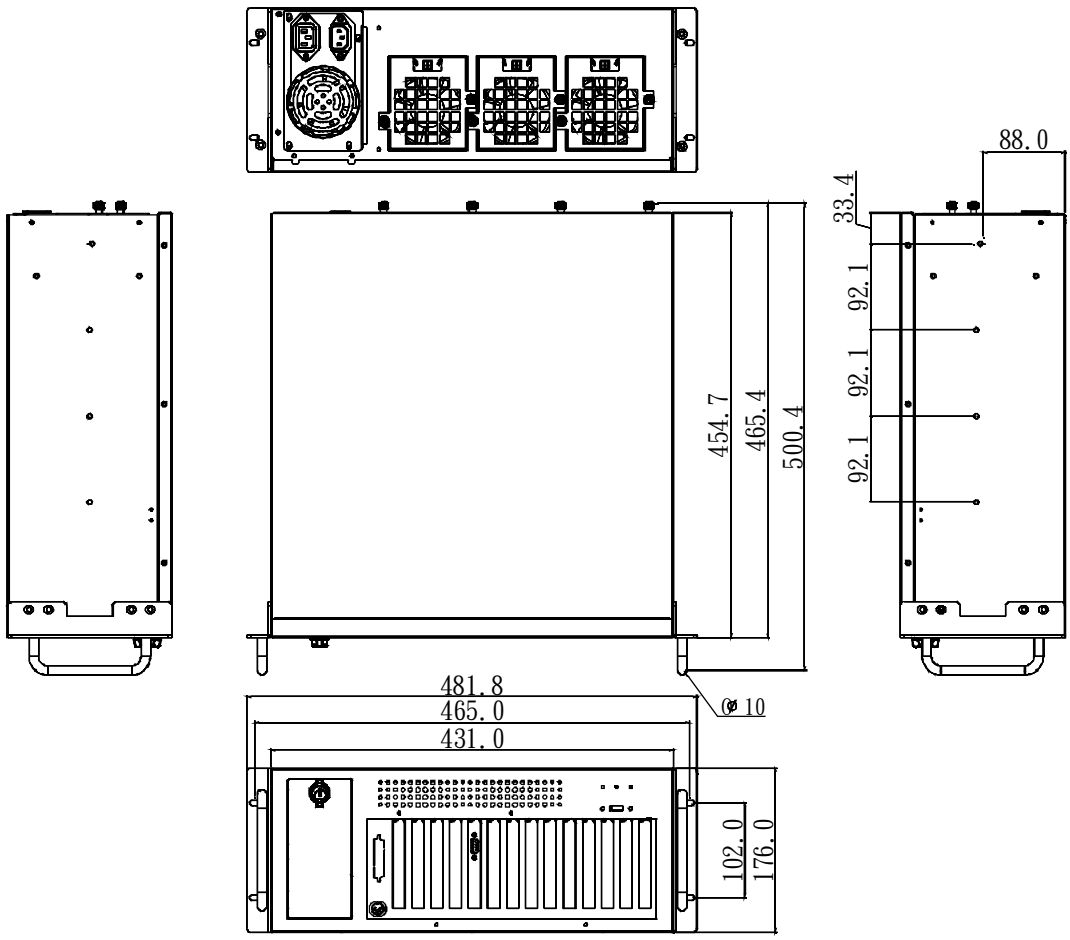
Cooling Fan

Three removable Ball Bearing Cooling Fan(8cmX3)

Drive Capacity

One 5.25” drive ,one 3.5” FDD drive and one 3.5” HDD drive space

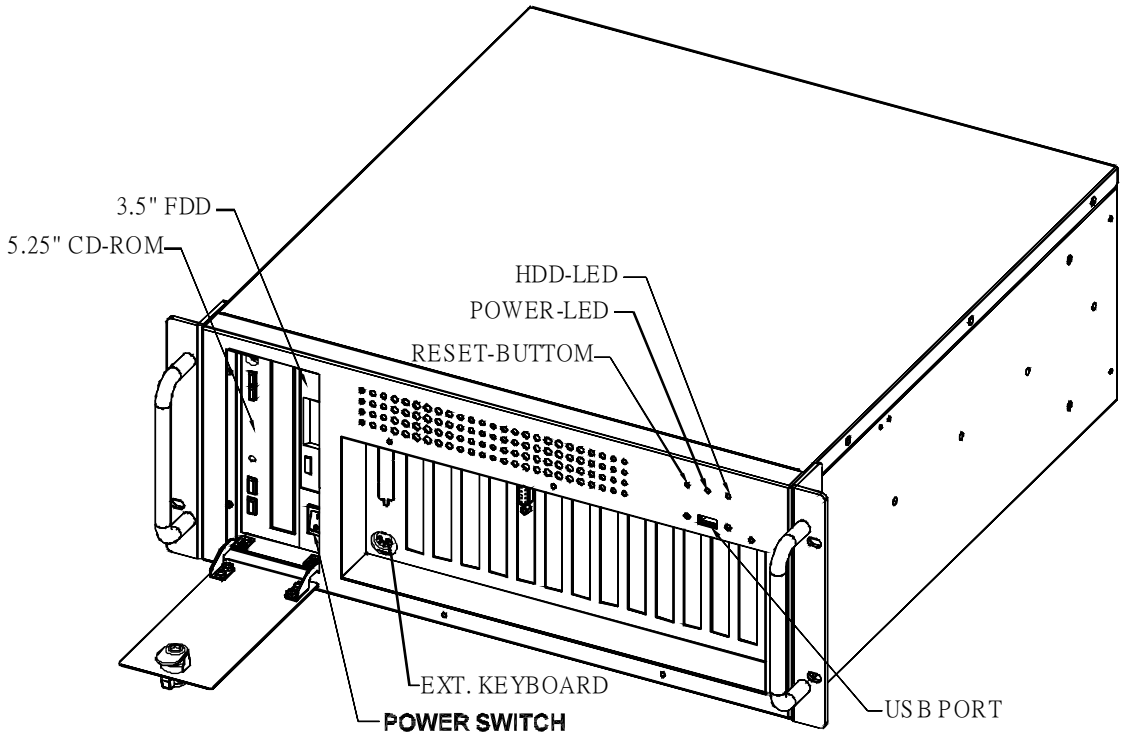
1.3 Dimensions



Chapter 2 Installation Procedure

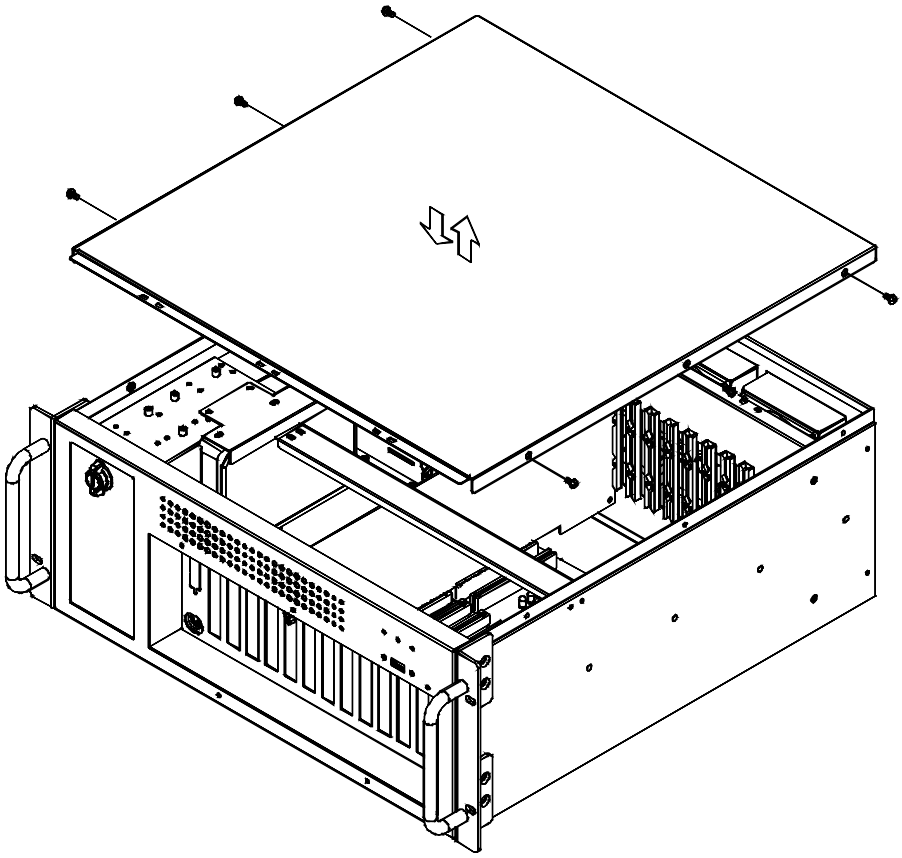
The following set up procedures are provided to assist you in installing the system unit, please follow the steps below:

2.1 The Front Panel of Rack-814



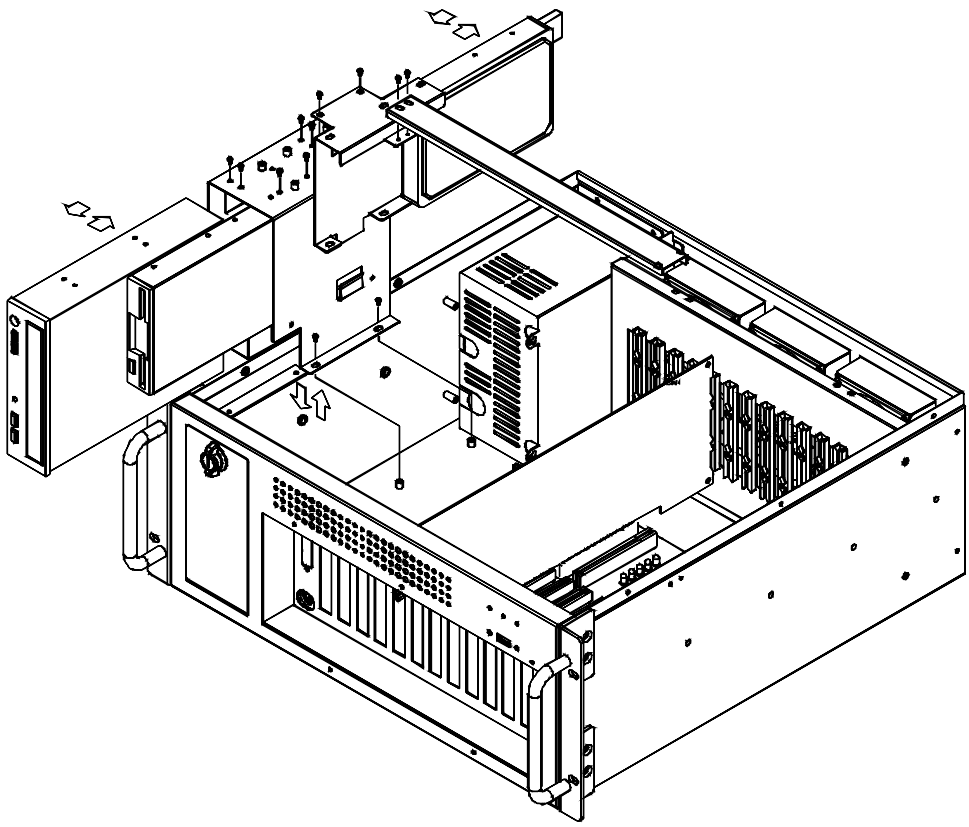
2.2 Removing the chassis cover

The cover is mounted by 6 screws at each side and the top of the chassis, remove them and slide the cover to the rear of the chassis. Figure below shows how to remove the chassis cover.



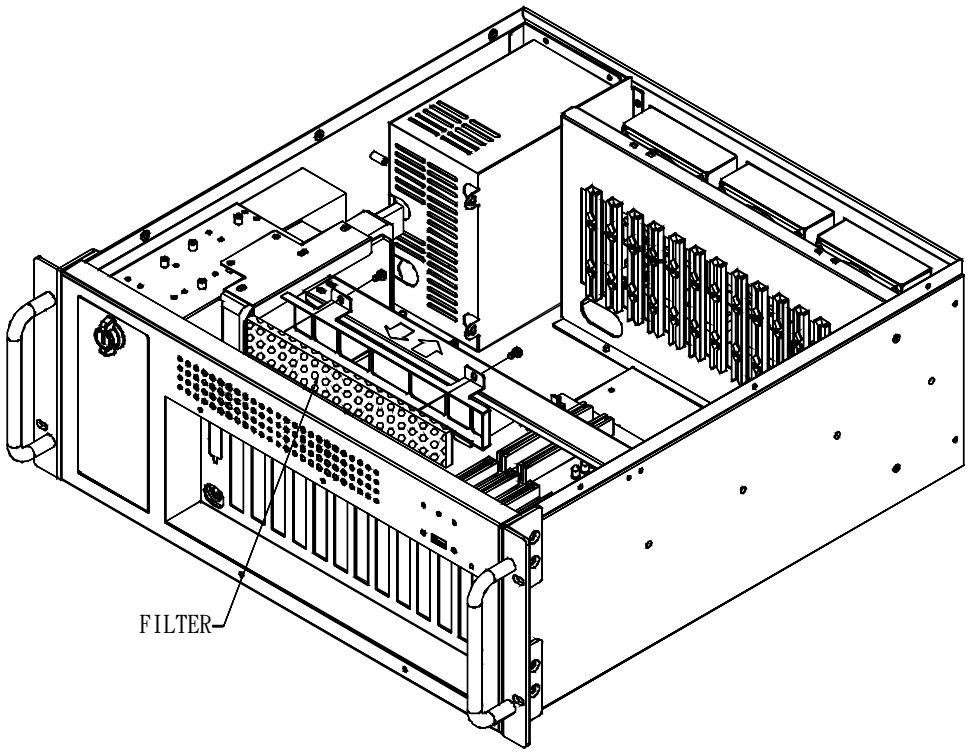
2.3 Disk Drives installation

1. Open the disk drive door in the front panel
2 . Remove the disk drive bay
3. Attach the FDD to the bracket with four screws and connect FDD cable & power cable to the FDD.
4. Attach the HDD to the bracket with four screws and connect a 40-pin flat cable & power cable to the HDD.



2.4 Replacing the Filter

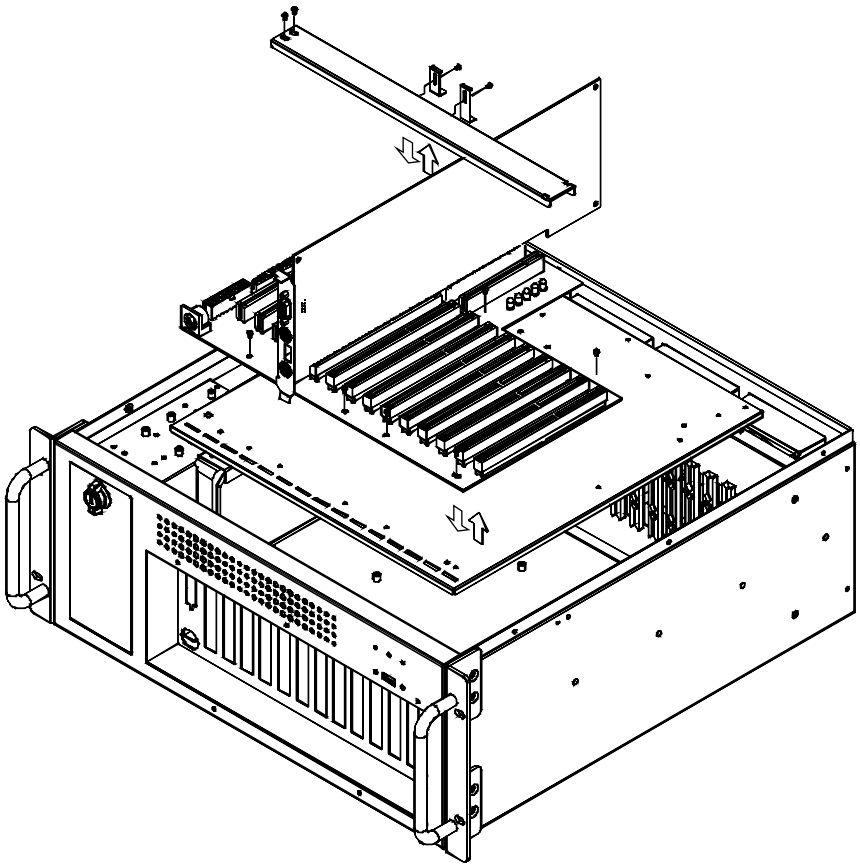
The filter of the Rack-814 is located at the front end of the chassis. The filter should be removed and cleaned at least once a month to achieve optimum performance. The filter can be removed simply by turn the key-lock to the counter clock-wise direction. Take out the old filter, replace it with the new one if it's already worn out. Then close and lock the filter door.



2.5 The Backplane & Card Clamp Installation

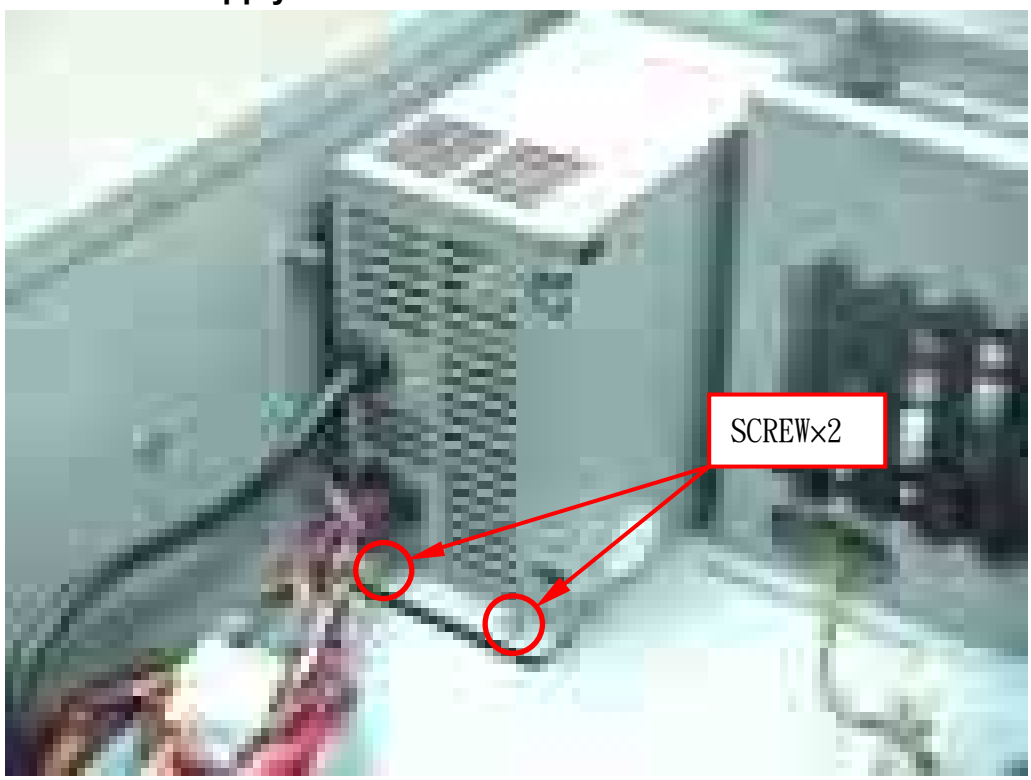
To install the backplanes in the chassis, remove the clamp panel first, then put the backplanes inside the chassis and screw it.

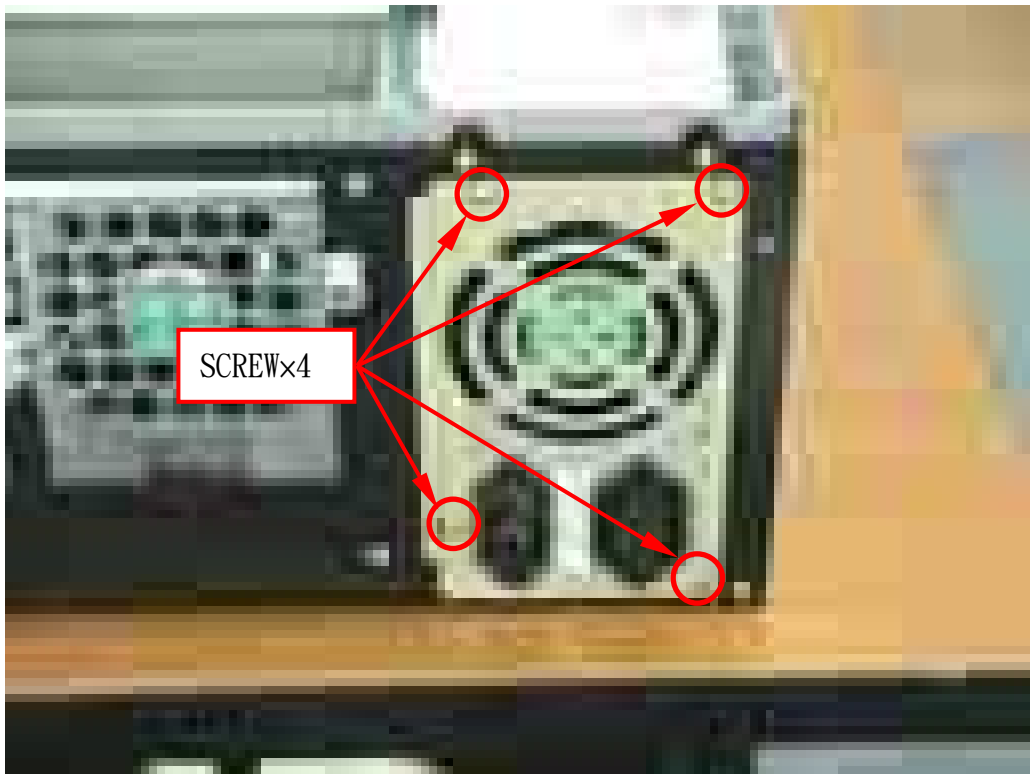
Figure below illustrates how to install the backplanes on the Rack-814.



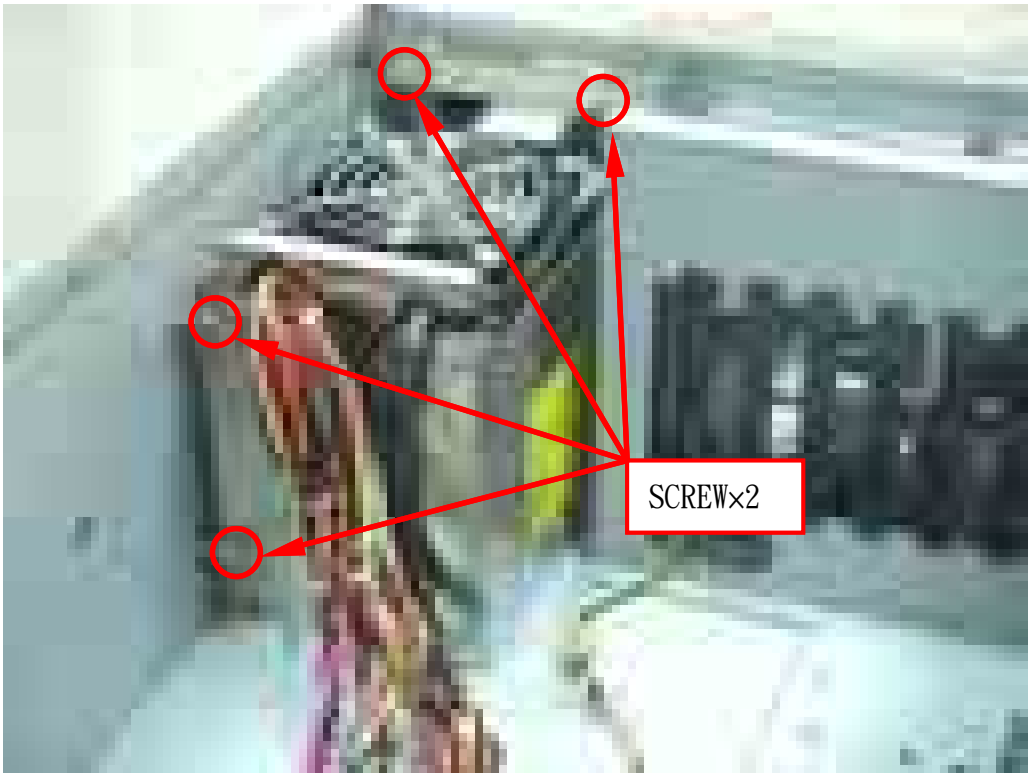
2.6 Power Supply Installation

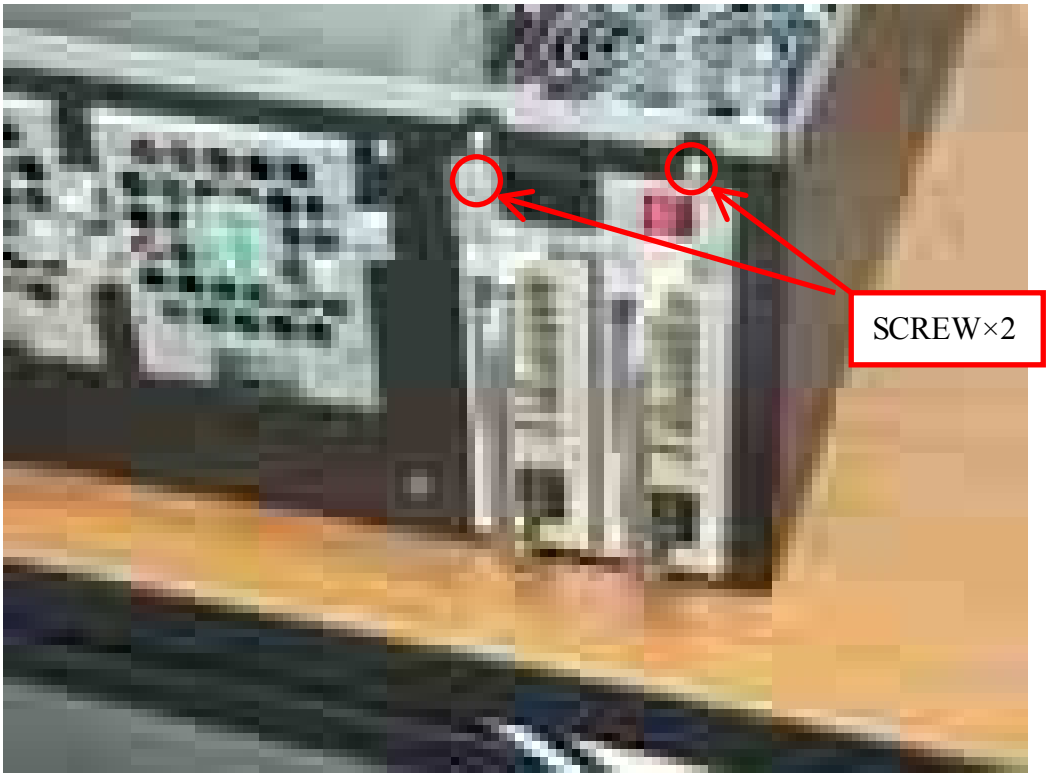
2.6.1Power Supply for the Rack-814 installation: ACE-920A/932A/935AI/925T…..



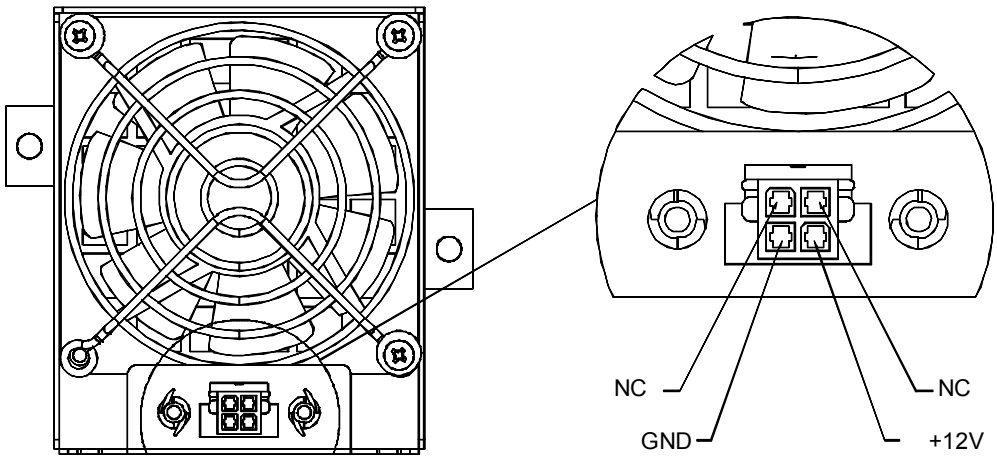


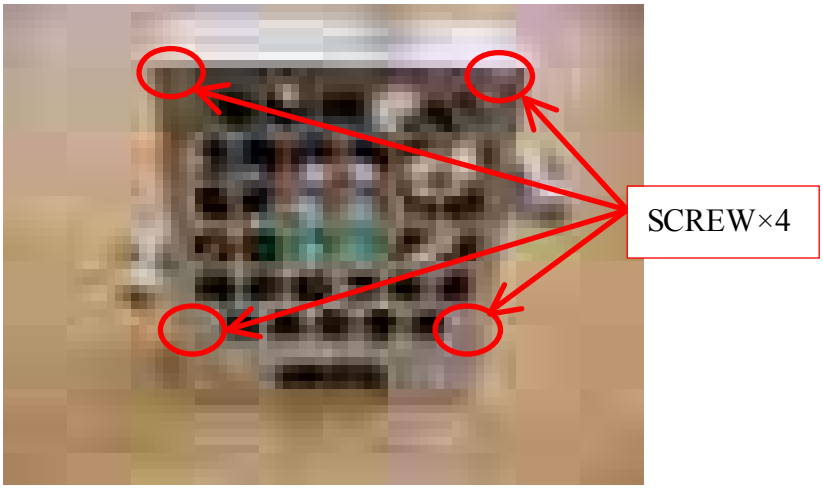
2.6.2Redundant Power Supply for the Rack-814 installation:ACE-C232C

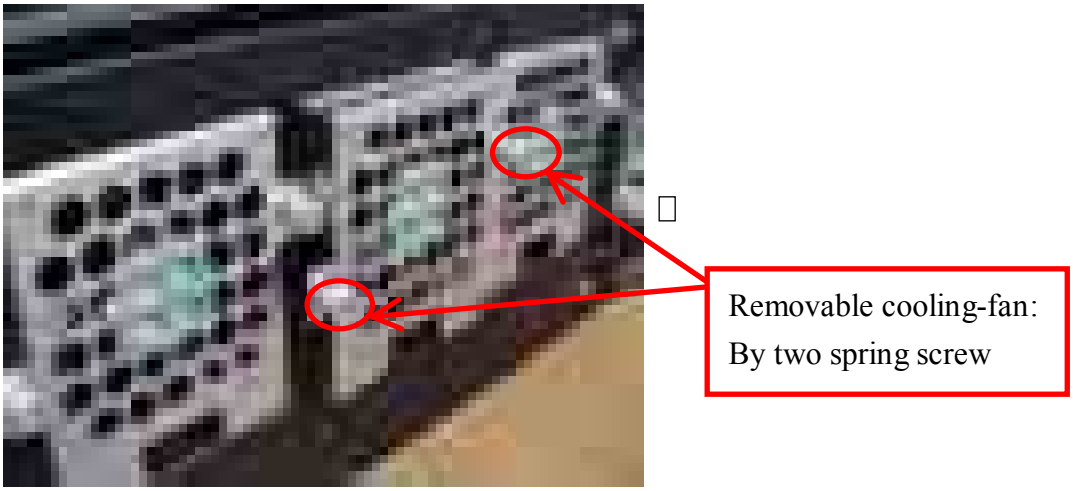




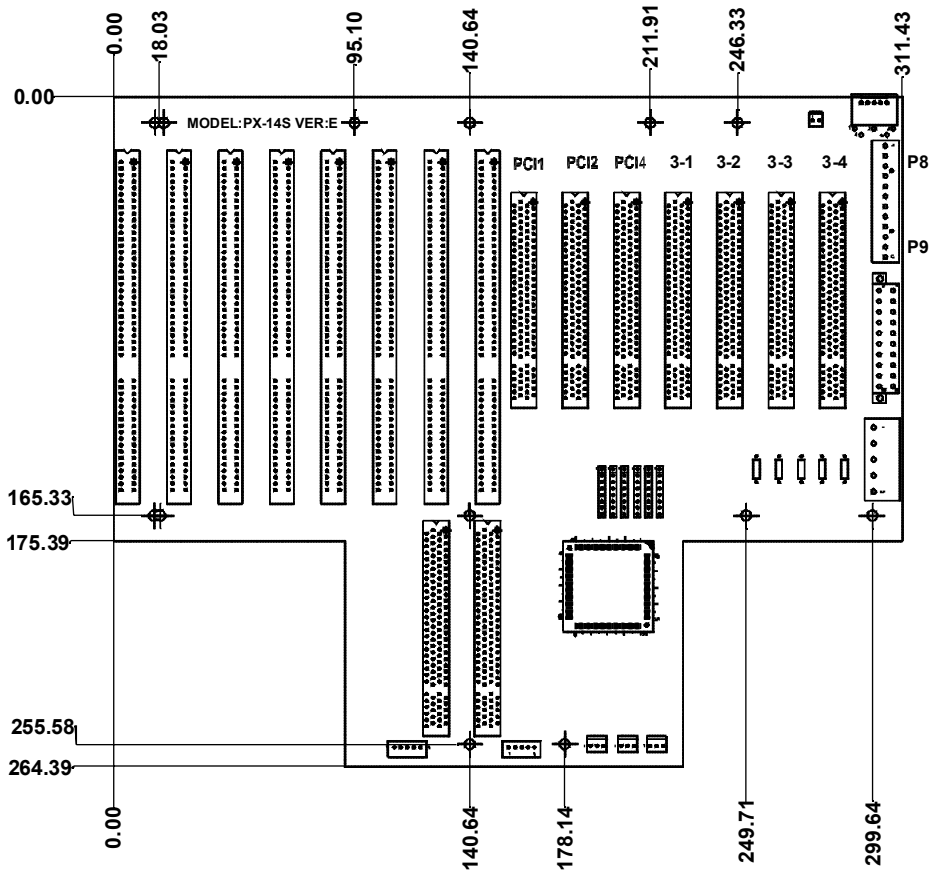
2.7 Fan Installation

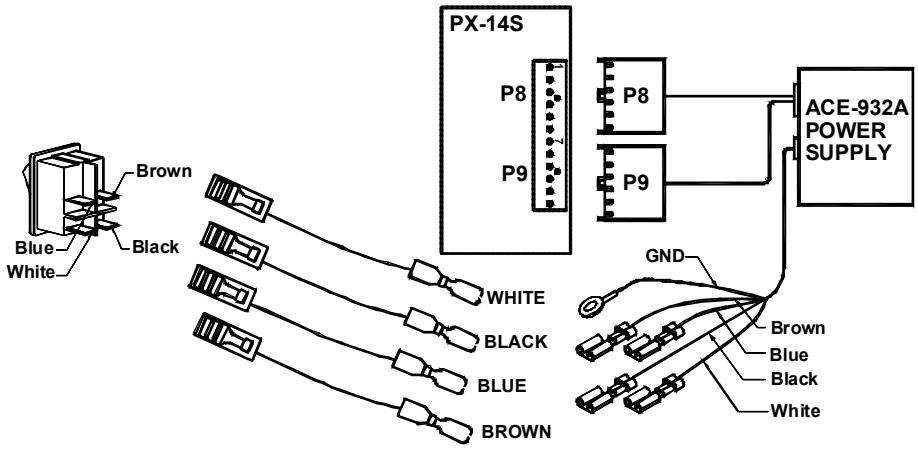




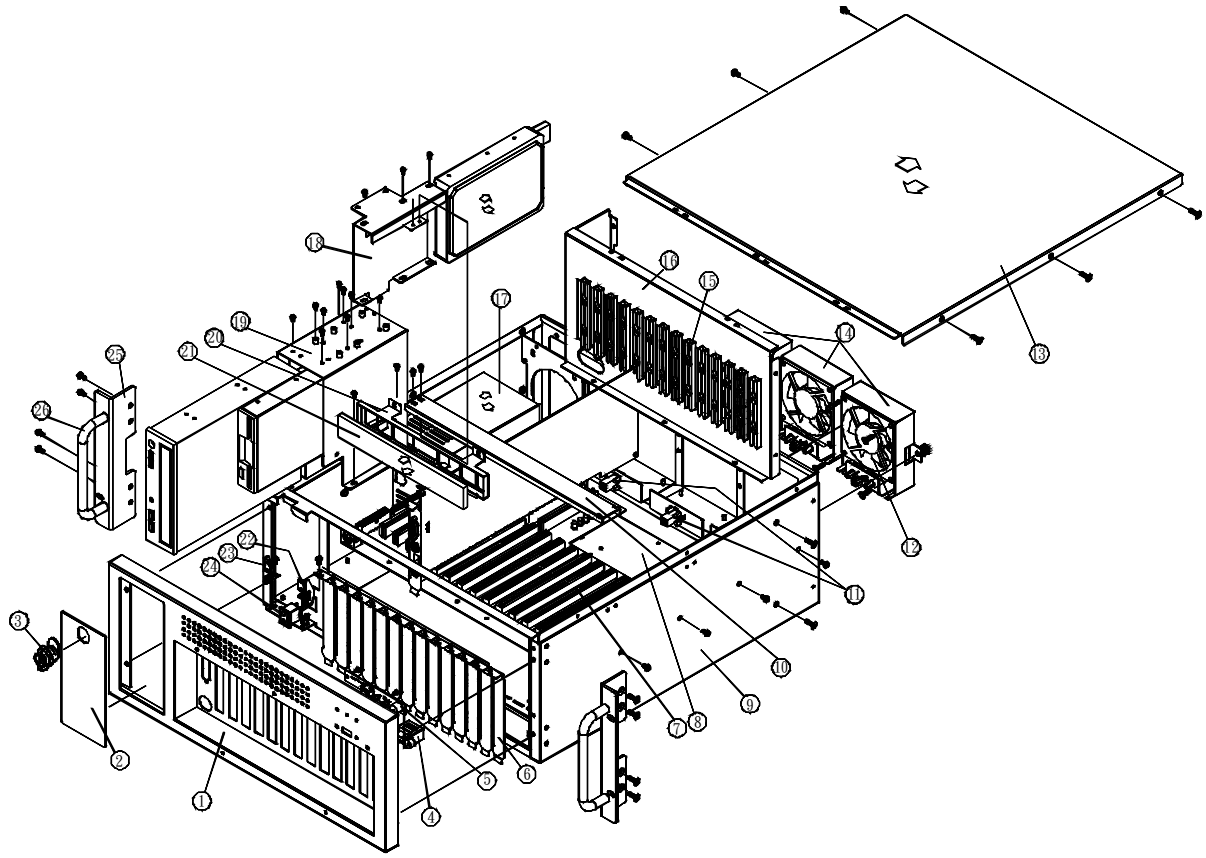


APPENDIX A PASSIVE BACKPLANES





APPENDIX B EXPLODED DIAGRAM



PART LIST

ITEM	PART NO.	DESCRIPTION	Q'TY	REMARK
1	41001-0029XX	ASSEMBLY FRONT PANEL	1	
2	41012-0025XX	DOOR PANEL	1	
3	45007-000104	LOCK	1	
4	32000-000091	USB CABLE	1	
5	131LP01-00-010	LP-01 PANEL IP52A	1	
6	45002-000103	BRACKET	14	
7	011BP14S-00-000	BP-14S(Bcak-plane)	1	OPTION
8	41013-001502	PCB-BASE	1	
9	41006-0075XX	ASSEMBLE BASE	1	
10	41015-0032XX	INTERFACE CARD BRACKET	1	
11	32100-000229	WIRE CABLE FAN	1	
12	31100-000024	FAN(80mm/2Wire)	3	
13	41008-0047XX	UPPER COVER	1	
14	41009-0002XX	FAN GRILLE	3	
15	46002-000200	LEAD-PCB(CG-9A)	14	
16	41005-0032XX	LEAD-SLIDE-SET	1	
17	63ACE932A-000	Power/ACE-932A	1	OPTION
18	41011-0087XX	HDD SET	1	
19	41011-0088XX	DRIVER SET	1	
20	41010-001002	FILTER-FIX	1	
21	46015-001800	FILTER	1	
22	41016-0015XX	HINGE-R	1	
23	41016-0014XX	HINGE-L	1	
24	31300-000005	POWER SWITCH(ON/OFF)	1	
25	41020-0019XX	HANDLE-SET	2	
26	45003-000303	HANDLE	2	